

**Integrated Capacitor-Like Battery  
and Associated Method**

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**Abstract of the Disclosure**

A method and system for fabricating solid-state energy-storage and energy-  
conversion devices including fabrication of films for devices without an anneal step,  
especially for the fabrication of supercapacitors and photovoltaic cells. A film is  
10 fabricated by depositing a first material layer to a location. Energy is supplied  
directly to the material forming the film. The energy can be in the form of  
energized ions of a second material. Supplying energy directly to the material  
and/or the film being deposited assists the growth of the crystalline structure of the  
film and controls stoichiometry.

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